

### **ABSTRACT OF THE DISCLOSURE**

In a method and system for imaging using multiple apertures, the present invention uses an array of lens elements to form the aperture for a high resolution imaging system. The light from each lens element is properly phased  
5 and reduced in volume to form a compact imaging system that captures images with higher resolution than possible with each individual element, potentially the resolution will correspond to an aperture equivalent to the size of the lens array.